

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Nashville

2960 Foster Creighton Road

Nashville, TN 37204

Tel: 800-765-0980

TestAmerica Job ID: NWB3461

Client Project/Site: NPDES Permit MA0000833

Client Project Description: Everett Terminal

For:

Exxonmobil Everett Terminal

52 Beacham Street

Everett, MA 02149

Attn: Ernest Haynes



Authorized for release by:

3/2/2012 1:14:33 PM

Gail A Lage

Program Manager - National Accounts

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### LINKS

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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## Sample Summary

Client: Exxonmobil Everett Terminal  
Project/Site: NPDES Permit MA0000833

TestAmerica Job ID: NWB3461

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
NWB3461-01	Outfall 01 A	Waste Water	02/24/12 16:35	02/25/12 08:30

## Definitions/Glossary

Client: Exxonmobil Everett Terminal  
Project/Site: NPDES Permit MA0000833

TestAmerica Job ID: NWB3461

### Qualifiers

#### WetChem

Qualifier	Qualifier Description
R2	The RPD exceeded the acceptance limit.

#### Extractions

Qualifier	Qualifier Description
M7	The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

## Client Sample Results

Client: Exxonmobil Everett Terminal  
Project/Site: NPDES Permit MA0000833

TestAmerica Job ID: NWB3461

**Client Sample ID: Outfall 01 A**

**Lab Sample ID: NWB3461-01**

**Date Collected: 02/24/12 16:35**

**Matrix: Waste Water**

**Date Received: 02/25/12 08:30**

### Method: SM2540 D - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	5.20		1.33	0.787	mg/L		02/25/12 22:15	02/25/12 22:15	1.33

### Method: EPA 1664A - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease HEM	<1.24		3.81	1.24	mg/L		02/28/12 11:00	02/28/12 14:08	1.00

# QC Sample Results

Client: Exxonmobil Everett Terminal  
Project/Site: NPDES Permit MA0000833

TestAmerica Job ID: NWB3461

## Method: SM2540 D - General Chemistry Parameters

Lab Sample ID: 12B6236-BLK1

Matrix: Water

Analysis Batch: 12B6236

Client Sample ID: Method Blank

Prep Type: Total

Prep Batch: 12B6236\_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<0.590		1.00	0.590	mg/L		02/25/12 22:15	02/25/12 22:15	1.00

Lab Sample ID: 12B6236-BS1

Matrix: Water

Analysis Batch: 12B6236

Client Sample ID: Lab Control Sample

Prep Type: Total

Prep Batch: 12B6236\_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	100	99.9		mg/L		100	90 - 110

Lab Sample ID: 12B6236-DUP1

Matrix: Water

Analysis Batch: 12B6236

Client Sample ID: Duplicate

Prep Type: Total

Prep Batch: 12B6236\_P

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	4.60		4.30	R2	mg/L		7	5

Lab Sample ID: 12B6236-DUP2

Matrix: Water

Analysis Batch: 12B6236

Client Sample ID: Duplicate

Prep Type: Total

Prep Batch: 12B6236\_P

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	<0.590		<0.590		mg/L			5

## Method: EPA 1664A - General Chemistry Parameters

Lab Sample ID: 12B6448-BLK1

Matrix: Water

Analysis Batch: 12B6448

Client Sample ID: Method Blank

Prep Type: Total

Prep Batch: 12B6448\_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease HEM	<1.35		4.17	1.35	mg/L		02/26/12 19:24	02/28/12 14:08	1.00

Lab Sample ID: 12B6448-BS1

Matrix: Water

Analysis Batch: 12B6448

Client Sample ID: Lab Control Sample

Prep Type: Total

Prep Batch: 12B6448\_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Oil & Grease HEM	40.0	36.1		mg/L		90	78 - 114

Lab Sample ID: 12B6448-BSD1

Matrix: Water

Analysis Batch: 12B6448

Client Sample ID: Lab Control Sample Dup

Prep Type: Total

Prep Batch: 12B6448\_P

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Oil & Grease HEM	40.0	35.8		mg/L		90	78 - 114	0.9	18

## QC Sample Results

Client: Exxonmobil Everett Terminal  
Project/Site: NPDES Permit MA0000833

TestAmerica Job ID: NWB3461

### Method: EPA 1664A - General Chemistry Parameters (Continued)

Lab Sample ID: 12B6448-MS1

Matrix: Water

Analysis Batch: 12B6448

Client Sample ID: Matrix Spike

Prep Type: Total

Prep Batch: 12B6448\_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Matrix Spike Unit	D	%Rec	%Rec. Limits
Oil & Grease HEM	<1.73		40.0	108	M7	mg/L		269	78 - 114

## QC Association Summary

Client: Exxonmobil Everett Terminal  
Project/Site: NPDES Permit MA0000833

TestAmerica Job ID: NWB3461

### WetChem

#### Analysis Batch: 12B6236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12B6236-BLK1	Method Blank	Total	Water	SM2540 D	12B6236_P
12B6236-BS1	Lab Control Sample	Total	Water	SM2540 D	12B6236_P
12B6236-DUP1	Duplicate	Total	Water	SM2540 D	12B6236_P
12B6236-DUP2	Duplicate	Total	Water	SM2540 D	12B6236_P
NWB3461-01	Outfall 01 A	Total	Waste Water	SM2540 D	12B6236_P

#### Prep Batch: 12B6236\_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12B6236-BLK1	Method Blank	Total	Water	SOLIDS	
12B6236-BS1	Lab Control Sample	Total	Water	SOLIDS	
12B6236-DUP1	Duplicate	Total	Water	SOLIDS	
12B6236-DUP2	Duplicate	Total	Water	SOLIDS	
NWB3461-01	Outfall 01 A	Total	Waste Water	SOLIDS	

### Extractions

#### Analysis Batch: 12B6448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12B6448-BLK1	Method Blank	Total	Water	EPA 1664A	12B6448_P
12B6448-BS1	Lab Control Sample	Total	Water	EPA 1664A	12B6448_P
12B6448-BSD1	Lab Control Sample Dup	Total	Water	EPA 1664A	12B6448_P
12B6448-MS1	Matrix Spike	Total	Water	EPA 1664A	12B6448_P
NWB3461-01	Outfall 01 A	Total	Waste Water	EPA 1664A	12B6448_P

#### Prep Batch: 12B6448\_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12B6448-BLK1	Method Blank	Total	Water	1664 HEM/SGTHEM	
12B6448-BS1	Lab Control Sample	Total	Water	1664 HEM/SGTHEM	
12B6448-BSD1	Lab Control Sample Dup	Total	Water	1664 HEM/SGTHEM	
12B6448-MS1	Matrix Spike	Total	Water	1664 HEM/SGTHEM	
NWB3461-01	Outfall 01 A	Total	Waste Water	1664 HEM/SGTHEM	



## Lab Chronicle

Client: Exxonmobil Everett Terminal  
Project/Site: NPDES Permit MA0000833

TestAmerica Job ID: NWB3461

**Client Sample ID: Outfall 01 A**

**Lab Sample ID: NWB3461-01**

**Date Collected: 02/24/12 16:35**

**Matrix: Waste Water**

**Date Received: 02/25/12 08:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Analysis	SM2540 D		1.33	12B6236	02/25/12 22:15	PES	TAL NSH
Total	Prep	SOLIDS		1.33	12B6236_P	02/25/12 22:15	PES	TAL NSH
Total	Prep	1664 HEM/SGTHEM		1.00	12B6448_P	02/28/12 11:00	BJM	TAL NSH
Total	Analysis	EPA 1664A		1.00	12B6448	02/28/12 14:08	JJR	TAL NSH

### Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

## Method Summary

Client: Exxonmobil Everett Terminal  
Project/Site: NPDES Permit MA0000833

TestAmerica Job ID: NWB3461

Method	Method Description	Protocol	Laboratory
EPA 1664A	General Chemistry Parameters		TAL NSH
SM2540 D	General Chemistry Parameters		TAL NSH

### Protocol References:

### Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

## Certification Summary

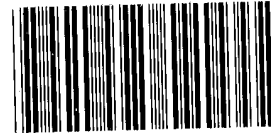
Client: Exxonmobil Everett Terminal  
Project/Site: NPDES Permit MA0000833

TestAmerica Job ID: NWB3461

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Nashville		ACIL		393
TestAmerica Nashville	A2LA	ISO/IEC 17025		0453.07
TestAmerica Nashville	Alabama	State Program	4	41150
TestAmerica Nashville	Alaska (UST)	State Program	10	UST-087
TestAmerica Nashville	Arizona	State Program	9	AZ0473
TestAmerica Nashville	Arkansas DEQ	State Program	6	88-0737
TestAmerica Nashville	California	NELAC	9	1168CA
TestAmerica Nashville	Canadian Assoc Lab Accred (CALA)	Canada		3744
TestAmerica Nashville	Colorado	State Program	8	N/A
TestAmerica Nashville	Connecticut	State Program	1	PH-0220
TestAmerica Nashville	Florida	NELAC	4	E87358
TestAmerica Nashville	Illinois	NELAC	5	200010
TestAmerica Nashville	Iowa	State Program	7	131
TestAmerica Nashville	Kansas	NELAC	7	E-10229
TestAmerica Nashville	Kentucky	State Program	4	90038
TestAmerica Nashville	Kentucky (UST)	State Program	4	19
TestAmerica Nashville	Louisiana	NELAC	6	30613
TestAmerica Nashville	Louisiana	NELAC	6	LA110014
TestAmerica Nashville	Maryland	State Program	3	316
TestAmerica Nashville	Massachusetts	State Program	1	M-TN032
TestAmerica Nashville	Mississippi	State Program	4	N/A
TestAmerica Nashville	Montana (UST)	State Program	8	NA
TestAmerica Nashville	New Hampshire	NELAC	1	2963
TestAmerica Nashville	New Jersey	NELAC	2	TN965
TestAmerica Nashville	New York	NELAC	2	11342
TestAmerica Nashville	North Carolina DENR	State Program	4	387
TestAmerica Nashville	North Dakota	State Program	8	R-146
TestAmerica Nashville	Ohio VAP	State Program	5	CL0033
TestAmerica Nashville	Oklahoma	State Program	6	9412
TestAmerica Nashville	Oregon	NELAC	10	TN200001
TestAmerica Nashville	Pennsylvania	NELAC	3	68-00585
TestAmerica Nashville	Rhode Island	State Program	1	LAO00268
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	Tennessee	State Program	4	2008
TestAmerica Nashville	Texas	NELAC	6	T104704077-09-TX
TestAmerica Nashville	USDA	Federal		S-48469
TestAmerica Nashville	Utah	NELAC	8	TAN
TestAmerica Nashville	Virginia	NELAC Secondary AB	3	460152
TestAmerica Nashville	Virginia	State Program	3	00323
TestAmerica Nashville	Washington	State Program	10	C789
TestAmerica Nashville	West Virginia DEP	State Program	3	219
TestAmerica Nashville	Wisconsin	State Program	5	998020430
TestAmerica Nashville	Wyoming (UST)	A2LA	8	453.07

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

## COOLER RECEIPT



NWVB3461

Cooler Received/Opened On 2/25/2012 @ 0830

1. Tracking # 9652 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 97310166

2. Temperature of rep. sample or temp blank when opened: 1.7 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: one front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) DA

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO NA If multiple coolers, sequence # \_\_\_\_\_

I certify that I unloaded the cooler and answered questions 7-14 (initial) W

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) W

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) W

I certify that I attached a label with the unique LIMS number to each container (initial) W

21. Were there Non-Conformance issues at login? YES NO Was a PIPE generated? YES NO # \_\_\_\_\_

